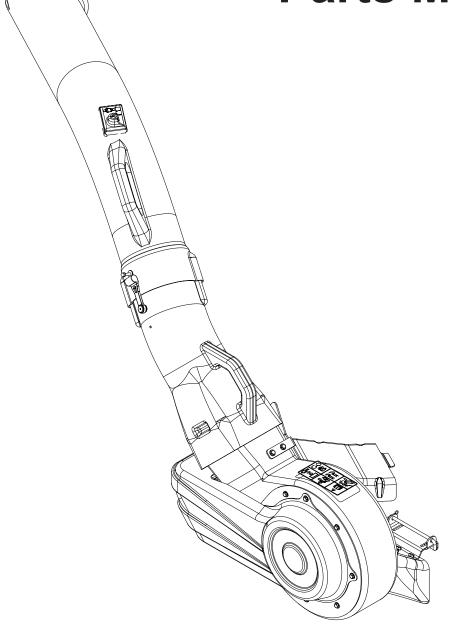
# **Operator and Parts Manual**



**Blower Kit 48" Collection System** 966004501

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**CONGRATULATIONS** on the purchase of a new collection system. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center/ department. They have competent, well-trained technicians and the proper tools for service and repairs.

Please read and retain this manual. The instructions will enable you to assemble and maintain your collection system properly. Always observe the "SAFFTY RULES"



### WARNING!

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### **KNOW YOUR BLOWER SYSTEM**

READ THIS OPERATION MANUAL AND SAFETY RULES BEFORE ASSEMBLING OR OPERATING YOUR BLOWER SYSTEM. Compare the illustrations with the carton contents to familiarize yourself with the parts before starting the assembly. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your Grass Catcher and to prevent injury to yourself and others. Save this manual for future reference.



The operation of any mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. ALWAYS wear safety glasses or eye shields before starting your mower and while mowing. Standard safety glasses are recommended or a wide vision safety mask for over spectacles.

### SAFETY RULES



### SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS



### DANGER!

THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

#### GENERAL OPERATION

- Read, understand and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, stones, toys, wire etc., which could be picked up and thrown by the blades.
- Be sure the area is clear of all people and pets before mowing. Stop the machine if anyone enters the area.
- Never carry passengers or children even with blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not direct it towards anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave the machine unattended when the engine is running. Always turn off the blades, set the parking brake, stop the engine and remove the key before leaving the machine.
- · Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- · Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch out for traffic when operating near or crossing roadways.
- Use extra care when loading and unloading the machine onto a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

- DO NOT operate mower with grass catcher, unless the front weights are installed.
- Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust/engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

#### SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

#### DO

- Mow up and down slopes (10° Max.), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low speed so that you will not have to stop while on the slope.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

### SAFETY RULES



### SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS



#### DO NOT

- **Do not** turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-off, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.

### **CHILDREN**

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- · NEVER allow children to operate the machine.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn off the machine if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

### **SERVICE**

- The operation of any mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your mower or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.
- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running.
  - Allow engine to cool before refueling.
  - Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check there proper operation regularly.



#### **CAUTION**

In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

### SAFETY RULES



### SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS



- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown.
   Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as shown in the Operator's Manual.



### **WARNING!**

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals know to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



### **WARNING!**

DO NOT tow any trailers, etc. with this mower. They may jackknife or over turn causing damage to the mower and possibly serious injury to the operator.

### **UNPACKING INSTRUCTIONS**

Remove all parts and packing materials from carton.

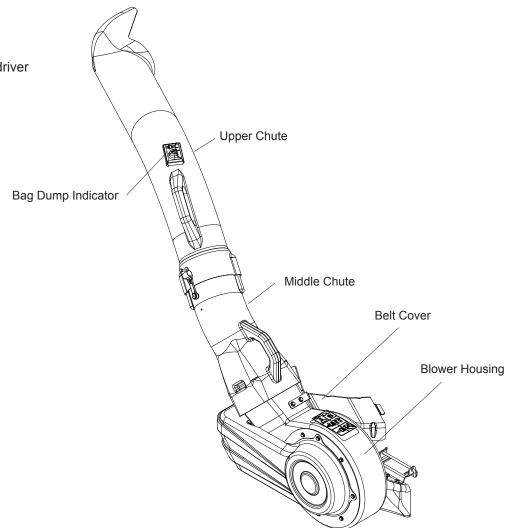
### **TOOLS REQUIRED**

- 7/16" Wrench or ratchet and socket
- ½" Wrench or ratchet and socket
- 7/8" Socket
- Torque Wrench
- · Phillips Head Screwdriver
- Hacksaw
- Pliers

#### **CONTAINER CONTENTS**

- Blower Assembly
- · Belt Shield
- Mounting Bracket
- Weight

- Drive Pulley
- Belt
- Bag of Hardware



NOTE: When right hand (R.H.) and left hand (L.H.) are mentioned in this manual, it means when you are seated on the mower in the operator's position.



### **CAUTION**

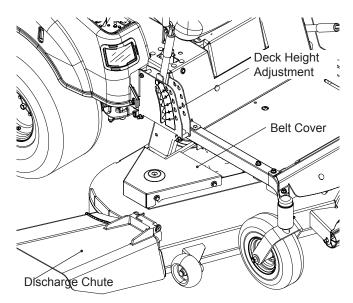
### **BEFORE ASSEMBLING GRASS CATCHER TO MOWER:**

- Set parking brake.
- Place motion control levers in "NEUTRAL" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug and place wire where it cannot come in contact with plug.

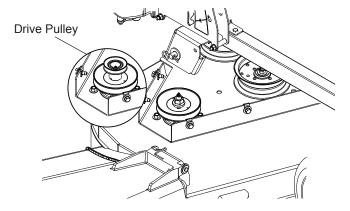
### **ASSEMBLY**

### **✓ INSTALLING DRIVE PULLEY**

- 1. Remove the discharge chute from the deck. (Deck configuration will vary by size and model)
- 2. Lower deck to the lowest cutting position.
- Remove the right hand (discharge side) belt cover from the deck.
- Relieve the tension from the deck belt and remove from the center deck pulley. (See Operator's Manual if necessary)

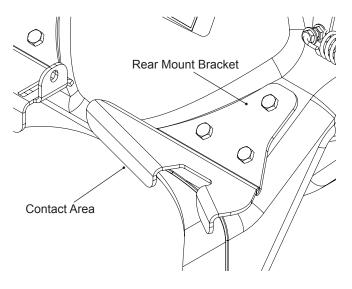


- 5. Remove the nut securing the right hand deck pulley to the spindle.
- Install drive pulley included in collection system kit on top of the current deck pulley.
- 7. Reinstall the nut on the spindle and torque to 55-75 ft/lbs.
- 8. Reinstall the deck belt.

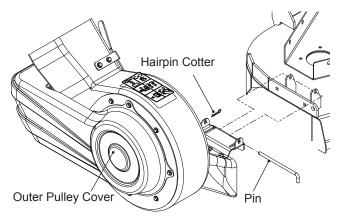


### MOUNTING BLOWER ASSEMBLY

- 1. Position blower over the discharge tabs on the deck and set blower onto the deck.
- 2. Be sure the blower is sitting flush against the outside of the deck.

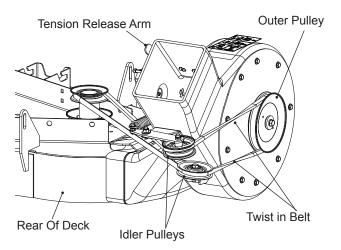


3. Install the front mount bracket to the deck with the pin and hairpin cotter supplied with the kit.



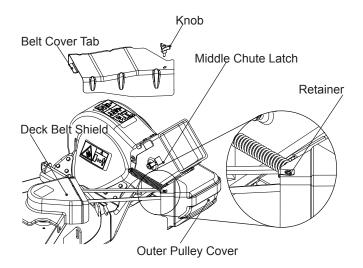
### 3 INSTALLING DRIVE BELT

- Make sure the tension release lever is forward or disengaged.
- 2. Place the belt over the pulley on the deck. Refer to illustration for proper routing.
- 3. Move the tension release arm to the rear and engage in the latch.



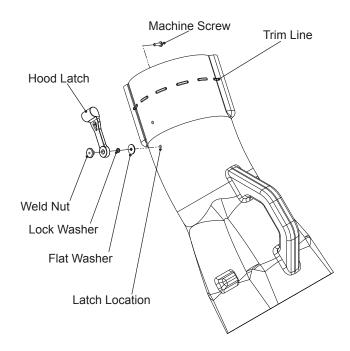
### INSTALLING BELT COVERS

- 1. Place the deck belt shield on the deck over the drive pulley and secure with hardware removed from steel belt shield.
- 2. Place retainer on the outer pulley cover.
- 3. Align the tab end of the belt cover into the slot on the deck belt shield and the other end over the end of the outer pulley cover.
- 4. Secure with knob.



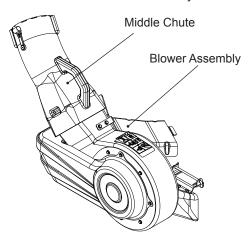
### 5 TRIMMING MIDDLE CHUTE

- 1. Using the hacksaw, trim along the dashed line.
- Locate the middle chute, flat washer, hood latch, weld nut, lock washer and machine screw from kit.
- 3. Install in the appropriate hole at the upper end of the middle chute, according to deck size.



### 6 INSTALLING MIDDLE CHUTE

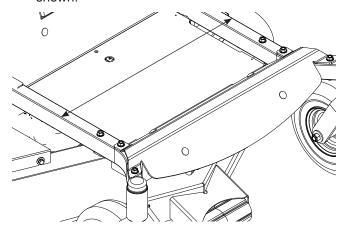
- Place middle chute over the top end of the blower assembly.
- 2. Latch middle chute to blower assembly.



### **ASSEMBLY**

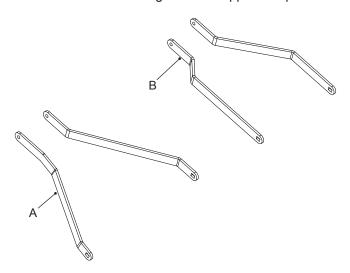
### **7**INSTALLING BAGGER MOUNT

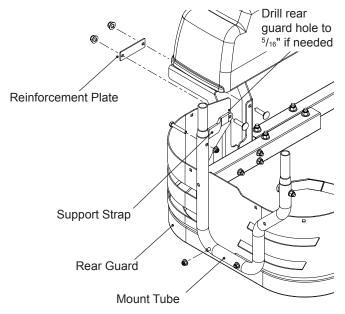
1. To select the right support straps to use, measure the mower frame just behind the casters, as shown.



- Install the bagger mount tube to the rear guard with 5/16-18 x 31/4 bolts and flange nuts from kit.
   NOTE: Depending on model, rear guard hole may need to be drilled out to 5/16" if kit hardware is too large.
- 3. Install kit support straps on the outside of the mount tube as shown in the illustration. Using a <sup>5</sup>/<sub>16</sub>-18 x 1½ bolt, attach the front side of the strap to the fender support. Do not add flange nut at this time. Place the reinforcement plate to the outside of the fender support. Secure with additional 1½ bolt and fasten both bolts with flange nuts. Repeat steps on opposite side.
  - NOTE: The front side of the kit support straps should be on the inside of the mower frame.
- 4. Tighten all hardware.

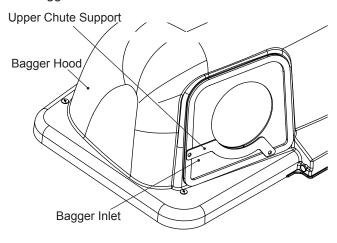
For frames measuring 26" use support straps A, for frames measuring 23" use support straps B.



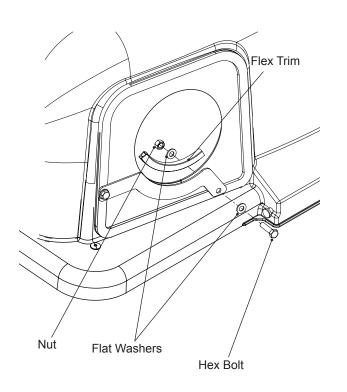


### NSTALLING CHUTE SUPPORT

- 1. Position upper chute support against bagger inlet, flush at outer edges. See Illustration.
- 2. Using support as a template, drill two <sup>3</sup>/<sub>8</sub> holes into bagger hood.

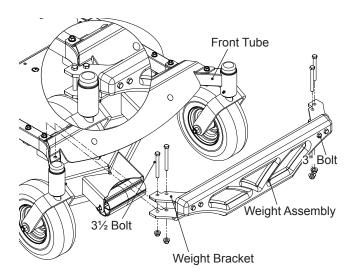


3. Secure upper chute support to hood with hex bolts, washers and nyloc nuts.



### **Q**INSTALLING WEIGHT KITS

- 1. Bolt cast weight to weight brackets using 3/8-16 x 3 bolts and four nuts.
- 2. Slide both weight brackets over the front tube on the frame. Be sure to position the weight assembly in the center of the frame.
- 3. Secure with 3/8-16 x 3½ bolts and four nuts.





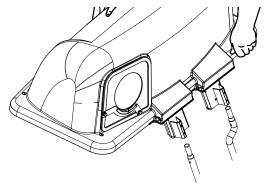
### **CAUTION**

DO NOT operate mower with grass catcher without front weights installed.

### 1 MOUNTING COVER ASSEMBLY

**NOTE:** Assistance from another person may ease mounting the cover assembly to mower.

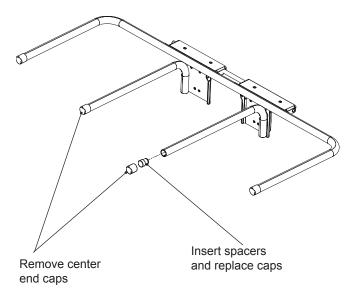
- 1. Lift and rotate cover to align the cover brackets with support assembly tubes.
- 2. Slide the cover down over the support tubes until secure.



### **ASSEMBLY**

### 1 1 INSTALLING SPACER PLUGS

 Remove plastic end caps from the center two bag support arms. Fully insert spacer plugs into the ends of the support tubes. It may be necessary to tap the spacers into place with a hammer or mallet. Replace the plastic end cap back over the spacer. The additional extension will hold the hood more securely when latched.



#### TIPS FOR IMPROVED BAGGING

Follow the mower operation instructions in you mower operator's manual.

When operating your grass catcher on a lawn where grass and leaf bagging equipment has not been used, you are picking up thatch and debris that has accumulated for long periods of time. The amount collected and the total time of operation may be greater than you will experience with regular use of your grass catcher.

- Always run throttle at full speed when bagging.
- Select a speed low enough to give good mower cutting performance, good quality cut and good bagging performance.

NOTE: It may be necessary to overlap width of cut to suit your conditions.

- If grass is extremely tall, it should be mowed twice.
   The first time relatively high, the second time to desired height.
- Use left hand side of mower for trimming.
- Plastic trash bags (3.0 mil, 30 gallon) can be inserted inside grass catcher containers for ease of debris disposal. To remove the plastic trash bags when full:
  - a. Disengage blades, shift into neutral, engage the parking brake and stop the engine.
  - b. Unlatch and raise cover.
  - c. Remove one container at a time by grasping container handles and pulling toward the rear, off of the tube rails.
  - d. With the container resting on the ground, close and secure the top of the plastic lawn bag.
  - e. Tip the container on its side and slide the filled bag from the container.
  - f. Install a new plastic lawn bag with the edges of the bag draped over upper lip of the Container (for replacement bags refer to REPLACEMENT PARTS).
  - g. Repeat for other container.
  - Reinstall containers making sure right container overlaps left container at center supports.
  - Close cover and secure latches over center support tubes.
- Avoid cutting wet grass or in the morning while the dew is still heavy. Grass clippings collected under these conditions tend to be sticky and adhere to the walls of the flow path causing clogging.

### **OPERATION**

- If the grass catcher fails to pick up cut grass or leaves, it is an indication that clogging has occurred in the system or that the grass catcher containers are full.
  - a. Disengage blades, place motion control levers in neutral position.
    - Unlatch and raise cover.
    - Slide out containers and dispose of clippings.
    - Replace containers, close cover, and latch.
  - b. Unlatch chutes and check for clogging.
    - Remove all debris in chute.
    - Reassemble and latch chutes.

#### GENERAL RECOMMENDATIONS

Always observe safety rules when performing any maintenance.

- Before each use check for loose fasteners.
- Clean unit thoroughly after each use.

#### **BLADE CARE**

For best results mower blades must be kept sharp. Replace bent or damaged blades.

See BLADE CARE instructions in your mower operator's manual.



## CAUTION BEFORE PERFORMING MAINTENANCE, SERVICE OR ADJUSTMENTS:

- Set parking brake.
- Place motion control levers in "NEUTRAL" position.
- Place clutch control in "DISENGAGED" position.
- Turn ignition key to "OFF" position.
- Make sure blades and all moving parts have completely stopped.
- Disconnect spark plug wire(s) from spark plug(s) and place wire where it cannot come in contact with plug.

#### **STORAGE**

When grass catcher is to be stored for a period of time, clean it thoroughly, remove all dirt, grass, leaves, etc. Store in a clean, dry place.



### **CAUTION**

Do not leave grass in bagger containers. Empty containers after each use and before storing. Failure to do so may result in spontaneous combustion which could develop into a fire.



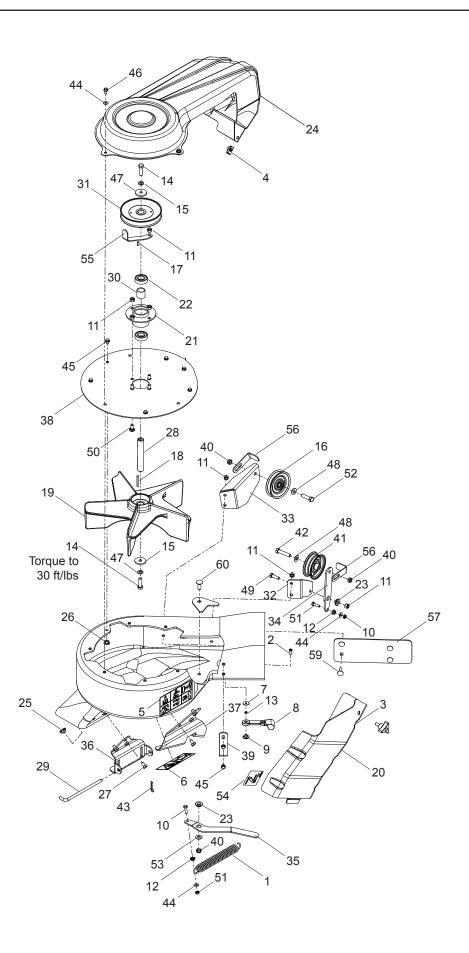
#### **CAUTION**

Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.

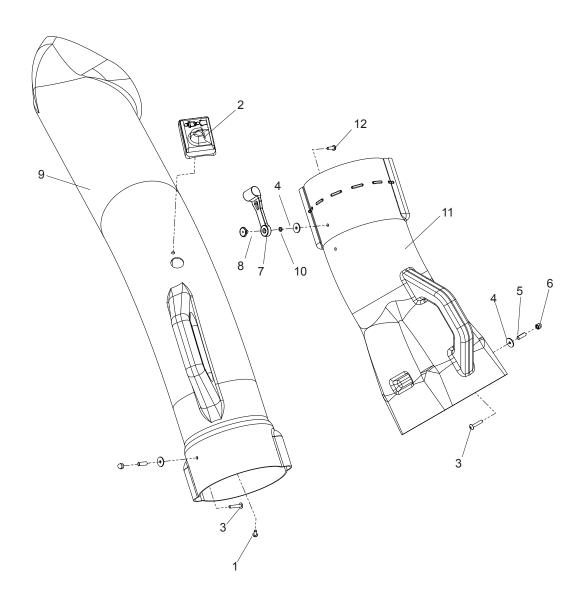


### CAUTION

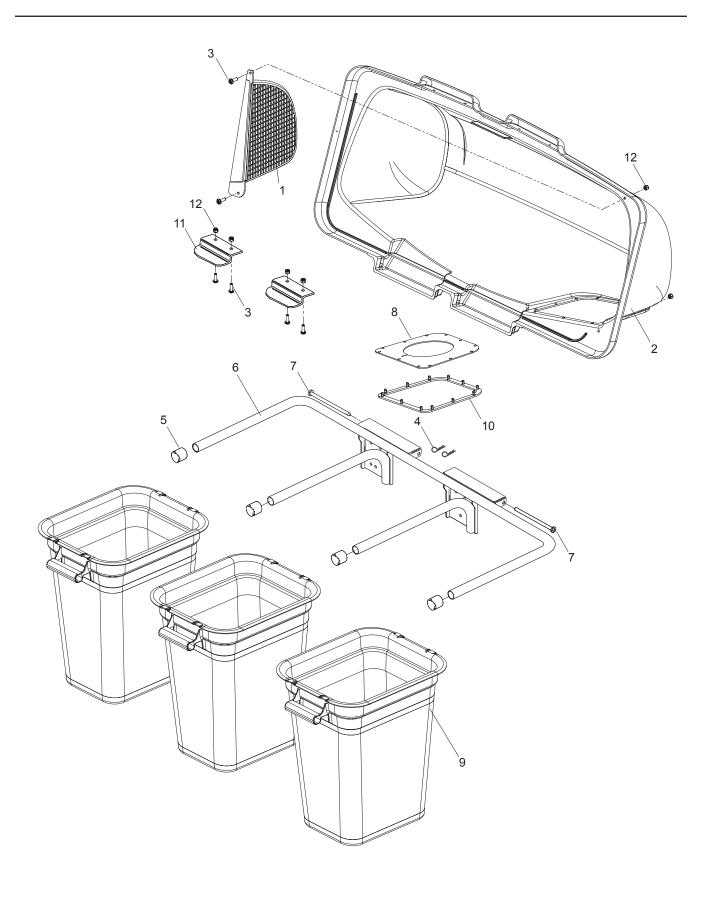
- DO NOT operate mower with grass catcher partially installed.
- Disengage blades and stop engine before leaving mower seat to empty containers, unclogging chutes, etc.
- Close cover before starting.
- Disengage mower blades when crossing driveways or gravel surfaces and other areas where thrown objects could be a hazard.
- DO NOT attempt to vacuum cans or other potentially hazardous projectiles.



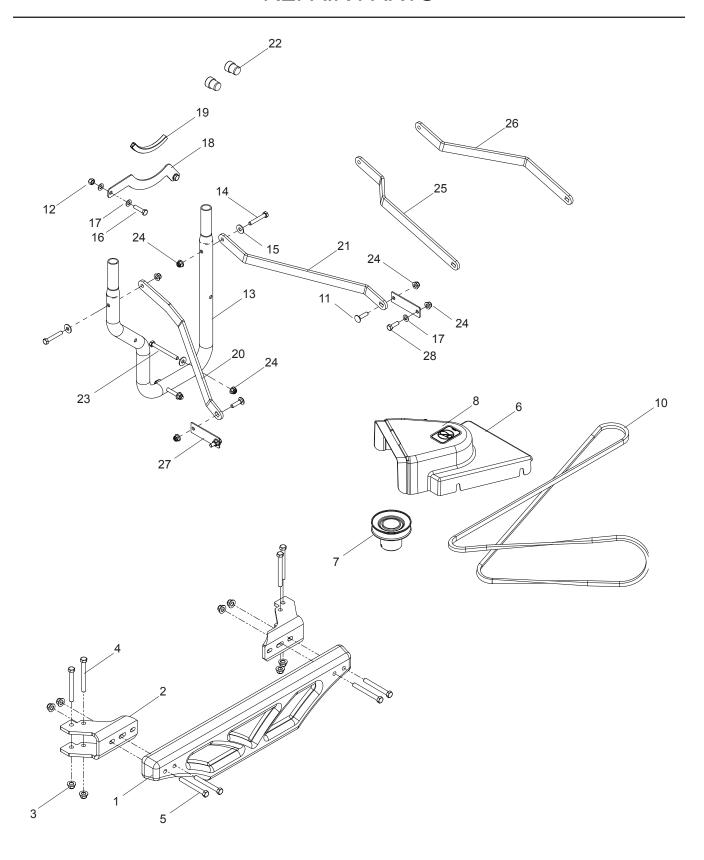
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART	NO.	QTY.	DESCRIPTION
1	539 101977.	1 TRA	ACTION SPRING	32	539 1	30335.	1 M	OUNT, IDLER, UPPER
2	539 976952.	1 SCF	REW 10-24 x .625 RI	33	539 1	30336.	1 M	OUNT, IDLER, LOWER
3	539 104411.	1 KNO	OB W/STUD	34	539 1	30337.	1 A	RM, IDLER
4	539 104763.	1 RE	TAINER U TYPE	35	539 1	30338.	1 A	RM, TENSION
5	539 105785.	1 DEC	CAL, WARNING	36	539 1	30339.	1 B	RACKET, MOUNT, FRONT
6	539 106741.	1 DE0	CAL, SEVERING	37	539 1	30340.	1B	RACKET, MOUNT, REAR
7	539 108084.	1 WA	SHER, <sup>3</sup> / <sub>16</sub> x <sup>3</sup> / <sub>4</sub> x 16 (	GA 38	539 1	30341.	1P	LATE, OUTER
8	539 108088.	1 LAT	CH, HOOD	39	539 1	30346.	1K	EEPER
9	539 108089.	1 WE	LD NUT, PLATED	40	539 2	200282.	3 N	UT 3/8-16 HEX JAM NYLOC
10	539 108120.	2 NU	Γ 1/4-20 HEX NYLOC	41	539 9	19078.	1P	ULLEY, IDLER
11	539 990717.	5 NU	Γ <sup>5</sup> / <sub>16</sub> -18 HEX NYLOC	42	539 9	76949.	1 H	CS <sup>3</sup> / <sub>8</sub> -16 x 1 <sup>3</sup> / <sub>4</sub>
12	539 108735.	2 NU	Γ¼-20 HEX FLANG	E 43	539 9	76988.	1H	AIRPIN COTTER
13	539 109552.	2 WA	SHER 3/16 LOCK	44	539 9	90055.	. 13 W	ASHER 1/4 FLAT SAE
14	539 110321.	2 BOI	_T, HEX <sup>3</sup> / <sub>8</sub> -24 x 1½ (					CREW 1/4 x 3/8 THRD FRM
			SHER, HARDENED					CS 1/4-20 x 1/2
	539 113683.							/ASHER 3/8 SPLT LOCK
	539 115667.							/ASHER 3/8 SAE FLT
	539 125229.							CS <sup>5</sup> / <sub>16</sub> -18 x 1
	539 130292.							HSNB <sup>5</sup> / <sub>16</sub> -18 x <sup>3</sup> / <sub>4</sub>
	539 130293.							CS 1/4-20 x 7/8
	539 130295.							CS <sup>3</sup> / <sub>8</sub> -16 x 1½
	539 130296.							/ASHER 5/16 STD FLT
	539 130301.							ECAL, BELT ROUTING
			VER, OUTER PULLE					EEPER, BELT, OUTER
	539 130313.							EEPER, BELT, REAR
	539 130314.							LATE, BACKING
	539 130315.							LATE, BACKING
			AFT, IMPELLER					HSNB <sup>5</sup> / <sub>16</sub> -18 x 1
	539 130317.							HSNB <sup>3</sup> / <sub>8</sub> -16 x 1
	539 130323.			61	539 1	30344.	1 H	OUSING w/DECALS
31	539 130324.	1PUL	LEY					



ITEM PART NO. QT	TY. DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1 539 108081 1	SCREW, SPEC 10-14 x ½	7	539 108088	1 LATO	CH, HOOD
2 539 108082 1	INDICATOR, BAG DUMP	8	539 108089	1 WEL	D NUT, PLATED
3 539 108083 2	2 SCREW 10-24 x 1 <sup>1</sup> / <sub>8</sub>	9	522 739201	1 CHU	TE, UPPER
4 539 108084 3	3 WASHER 3/16 x 3/4	10	539 109552	2 WAS	SHER 3/16 LOCK
5 539 108085 2	2 SPACER, SPLIT	11	539 130294	1 CHU	TE, MIDDLE
6 539 108086 2	2 NUT, ACORN 10-24	12	539 976952	1 SCR	EW 10-24 x .625 MACH



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1 5	32 192709	1 SCF	REEN, COVER	7	532 192786.	2 PIN,	HINGE
2 5	32 195373	1 CO\	/ER	8	532 192550.	1 SEAI	L, COVER
3 5	39 976952	6 SCF	REW #10-24 x <sup>5</sup> / <sub>8</sub>	9	532 400226.	3 CON	TAINER, SOFT BAG
4 5	39 108096	2 HAII	R PIN	10	532 192603.	1 GAS	KET, COVER
5 5	39 108097	4 PLU	G, TUBING END	11	532 130895.	2 HAN	DLE, BAGGER COVER
6 5	32 176990	1BAG	GER, FRAME	12	539 976977.	. 14 NUT	#10-24 CROWNLOCK



ITEN	M PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
	539 111587					•	WASHER 5/16 SAE FLAT
2	522 923202	2 WE	IGHT BRACKET	18	539 11023	4 1	SUPPORT, HOSE
3	521 996501	8 NU	T <sup>3</sup> /8-16 HEX FLANGE	19	539 11229	4 1	FLEX TRIM, BLACK
	539 108271 539 101341			20	523 08490	2 1	STRAP, SUPPORT, RT For 28" Frame
6	539 130306	1 SH	IELD, BELT	21	523 08470	2 1	STRAP, SUPPORT, LT For 28" Frame
	539 130319	_		22	522 80130	1 2	SPACER PLUG
			CAL, NO STEP	23	539 10152	0 2	HCS <sup>5</sup> / <sub>16</sub> -18 x 3 <sup>1</sup> / <sub>4</sub>
	539 130342			24	539 11289	98	NUT 5/16-18 HEX FLG NYLOC
	539 130347 539 100472		LI SNB <sup>5</sup> / <sub>16</sub> -18 x 1½	25	522 85440	2 1	STRAP, SUPPORT, RT For 26" Frame
12	539 990717	2 NU	T 5/16-18 HEX NYLOC	26	522 85450	2 1	STRAP, SUPPORT, LT
13	539 131091	1TUI	BE, MOUNT				For 26" Frame
14	539 976937	2 HC	S <sup>5</sup> / <sub>16</sub> -18 x 2	27	523 11280	2 2	PLATE, REINFORCEMENT
			SHER <sup>5</sup> / <sub>16</sub> STD FLT S <sup>5</sup> / <sub>16</sub> -18 x 1 <sup>1</sup> / <sub>4</sub>	28	539 99020	9 2	HCS <sup>5</sup> / <sub>16</sub> -18 x 1

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